

CLAIMS

1. An underground structure cover comprising a cover body and a receiving frame designed so that said cover body is fitted in and supported by said receiving frame in the manner that an inclined surface formed at an outer circumference of said cover body meets an inclined surface formed at an inner circumference of said receiving frame, wherein

the inclined surface of the outer circumference of said cover body and the inclined surface of the inner circumference of said receiving frame each include an upper inclined surface and a lower inclined surface,

in each of said cover body and said receiving frame, the lower inclined surface is steeper than the upper inclined surface, and

said cover body is fitted in and supported by said receiving frame at the upper inclined surface and lower inclined surface thereof which meet the upper inclined surface and lower inclined surface of said receiving frame, respectively.

2. The underground structure cover according to claim 1, wherein a gap is left between said cover body and said receiving frame so that the outer circumference of said cover body and the inner circumference of said receiving frame do not touch each other in a region between their upper inclined surfaces and their lower inclined surfaces, when said cover body is fitted in and supported by said receiving frame.

3. The underground structure cover according to claim 2, wherein

said cover body is round in shape,

the gap is defined by an intermediate inclined surface between the lower and upper inclined surfaces of said cover

body and an intermediate inclined surface between the lower and upper inclined surfaces of said receiving frame,

the intermediate inclined surface of said receiving frame is formed as a continuously curved surface which connects the upper and lower inclined surfaces of said receiving frame and includes a receiving-frame convex part projecting to the inside of said receiving frame and a receiving-frame convex part located above the receiving-frame convex part, and

the intermediate inclined surface of said cover body is formed as a continuously curved surface which connects the upper and lower inclined surfaces of said cover body and includes a cover-body concave part corresponding to the receiving-frame convex part and a cover-body convex part corresponding to the receiving-frame concave part.

4. The underground structure cover according to any of claims 1 to 3, wherein vertical angles of the lower inclined surfaces of said cover body and said receiving frame are in the range of 3° to 10° , and vertical angles of the upper inclined surfaces thereof are in the range of 7° to 20° .